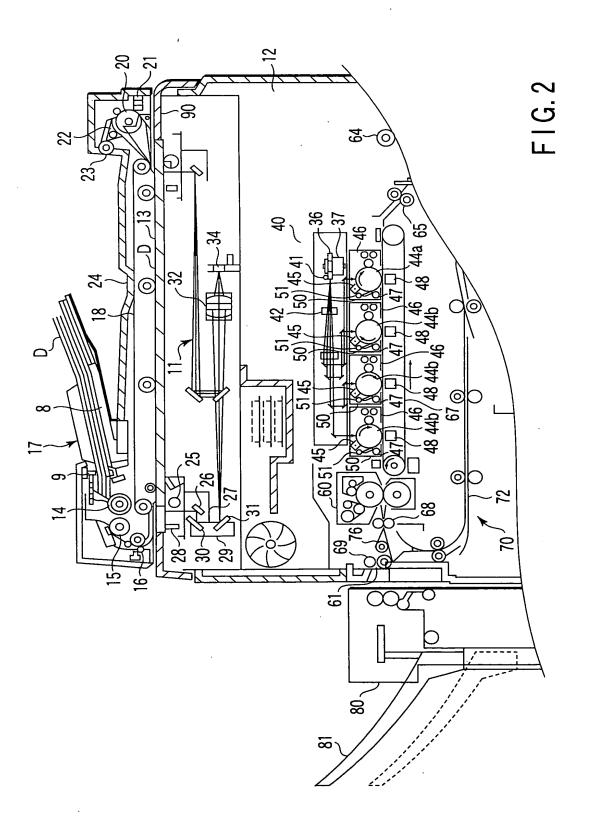


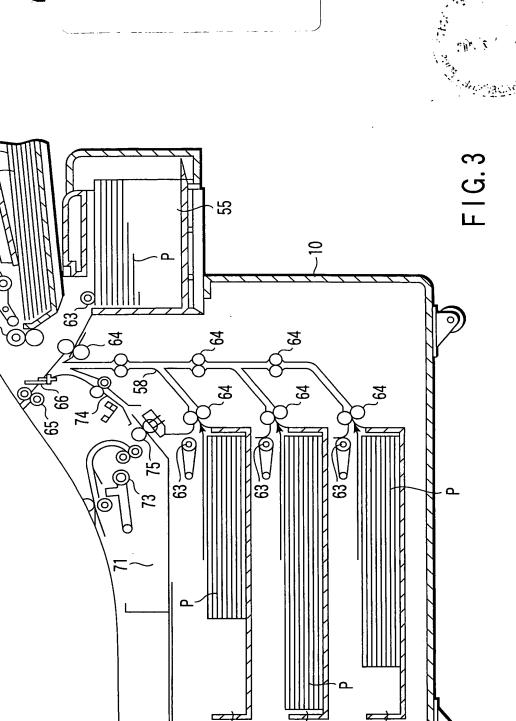
F1G.1



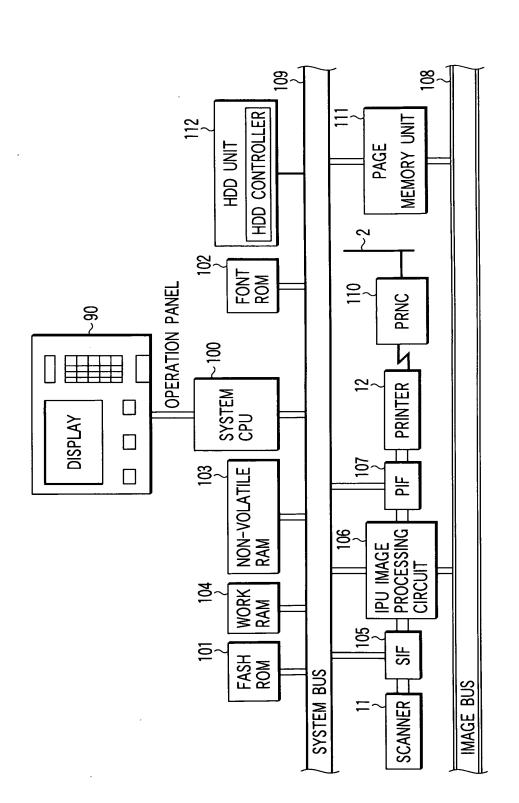


26

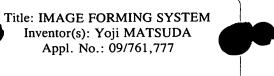
Title: IMAGE FORMING SYSTEM Inventor(s): Yoji MATSUDA Appl. No.: 09/761,777



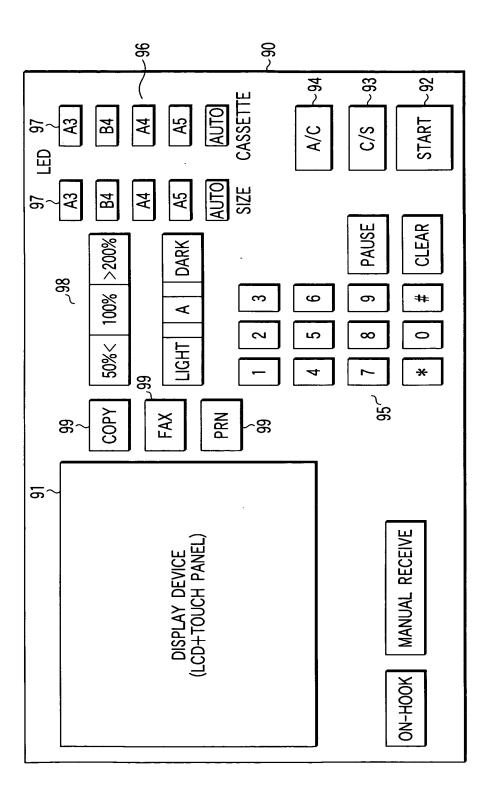
9

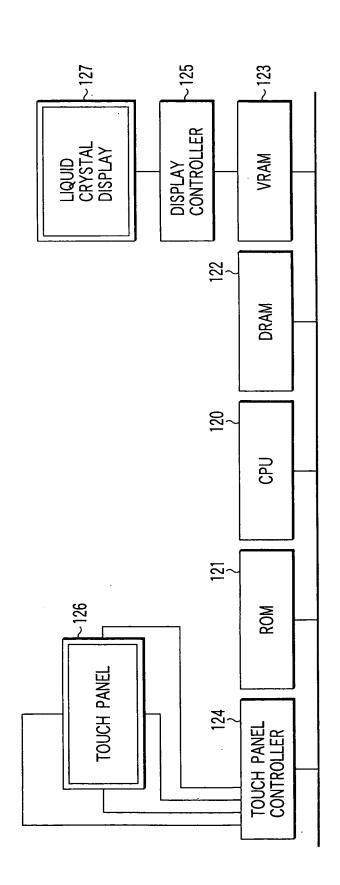


F I G. 4

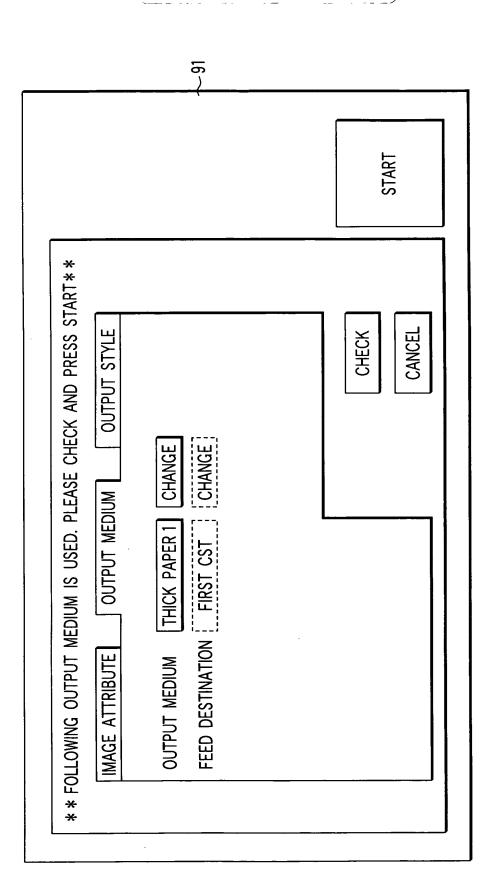








F1G.6



F1G.7

Inventor(s): Yoji MATSUDA Appl. No.: 09/761,777 6 START CHANGE CHANGE CHANGE NO SPECIFICATION | CHANGE CANCEL CHECK **OUTPUT STYLE** * * READ WITH FOLLOWING ATTRIBUTES. PLEASE CHECK AND PRESS START * * COLOR ADJUSTMENT NO ADJUSTMENT **BINDING MARGIN** WHITE/BLACK REVERCE **OUTPUT MEDIUM** EDIT EDIT 믒 CHANGE CHANGE CHANGE CHANGE CHANGE CHANGE ORIGINAL DOCUMENT MODE PHOTOGRAPH AUTOMATIC DENSITY FULL-COLOR 71% ADF **¥** ORIGINAL DOCUMENT SIZE IMAGE ATTRIBUTE INPUT METHOD MAGNIFICATION COLOR MODE DENSITY ADJUSTMENT

Title: IMAGE FORMING SYSTEM

F1G.8

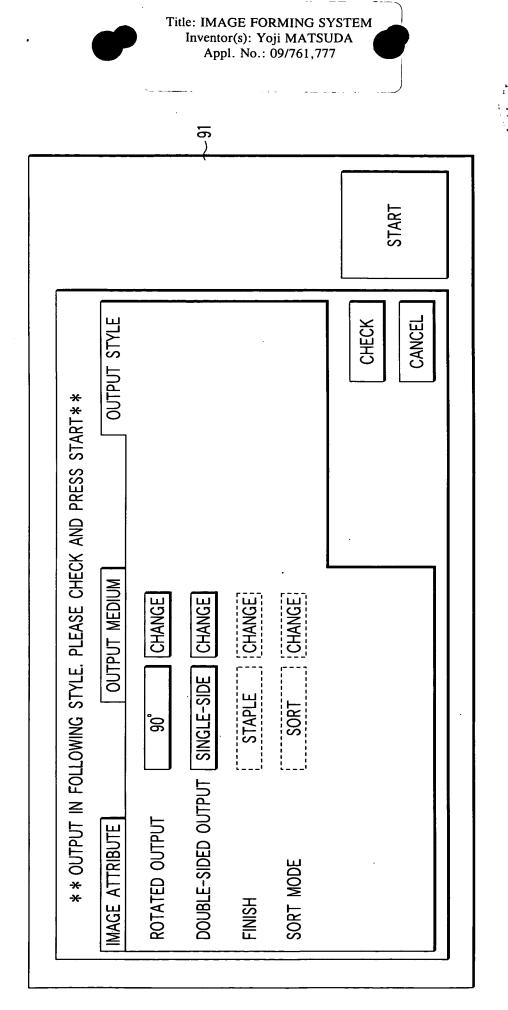


FIG.9

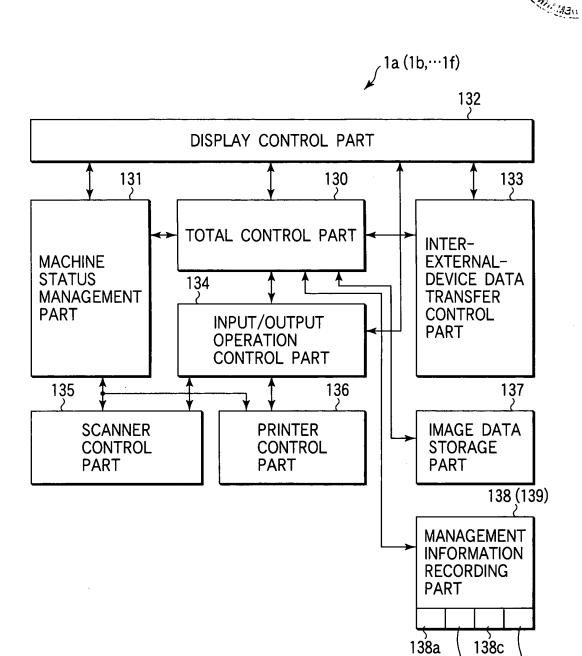


FIG. 10

(139a)

(139c)

138d

(139d)

138b

(139b)





PAGE TOP ← → PAGE END MEMORY FOR MEMORY FOR MEMORY FOR MEMORY FOR MEMORY FOR INPUT DEVICE INPUT DEVICE INPUT DEVICE INPUT DEVICE INPUT DEVICE (3)(0)(1) (2) (4) **MASTER** SLAVE **SLAVE DEVICE DEVICE DEVICE** ID NUMBER: 0 ID NUMBER: 1 ID NUMBER: FF ID NUMBER: 2 ID NUMBER: FF NOT USED NOT USED P1~P31 P32~P63 P64~P104

FIG. 11





(IMAGE FILE MANAGEMENT TABLE)

| LOBID | 001 | ì |
|-----------------------------|-----------|--------|
| JOBID | 0x01 | |
| INPUT DEVICE INFORMATION | 0x0C | |
| PAGE NUMBER (DEVICE 0) | 0x1F | |
| PAGE NUMBER (DEVICE 1) | 0x20 | |
| PAGE NUMBER (DEVICE 2) | 0 | } |
| PAGE NUMBER (DEVICE 3) | 0x29 |] |
| PAGE NUMBER (DEVICE 4) | 0 | ~ 138a |
| PAGE NUMBER (DEVICE 5) | 0 | |
| PAGE NUMBER (DEVICE 6) | 0 | |
| PAGE NUMBER (DEVICE 7) | 0 | |
| INPUT OPERATION STATUS | INPUTTING | |
| TOTAL PAGE | 0x68 | |
| OUTPUT DEVICE SPECIFICATION | 0x05 | |

F I G. 12



| ((| COPY ATTRIBUTE/STYLE/MED | NUM INFORMATION TABLE | .) |
|--------------------|--------------------------|-----------------------|-------------|
| | INPUT DEVICE NUMBER | 0x00 | Survey Stay |
| | JOBID | 0x01 | |
| | FILE NAME | 1_0_***.jpg | |
| | PAGE NUMBER | 0x1F | |
| | INPUT METHOD | ADF | |
| | ORIGINAL DOCUMENT SIZE | A4 | |
| | MAGNIFICATION | 71 | |
| IMAGE ATTRIBUTES ≺ | COLOR OR BLACK | COLOR | |
| · | FORMAT | JPEG | |
| | DENSITY ADJUSTMENT | AUTOMATIC | |
| ļ | COLOR ADJUSTMENT | NO ADJUSTMENT | • |
| | EDIT | WHITE/BLACK REVERSE | |
| | EDIT | BINDING MARGIN | |
| | EDIT | NOT SPECIFIED | |
| | MODE | PHOTOGRAPH | |
| OUTDUT MEDIUM | MEDIUM | THICK PAPER | - |
| OUTPUT MEDIUM { | SUPPLY SOURCE | 1ST CASSETTE | |
| (| OUTPUT STYLE | 40° | 1 20h |
| OUTPUT STYLE | DOUBLE-SIDED OUTPUT | SINGLE-SIDE | ~ 138b |
| OUTPUT STILLE | FINISH | STAPLE | |
| | SORT MODE | SORT | |
| | INPUT DEVICE NUMBER | 0x01 | |
| | JOBID | 0x01 | |
| | FILE NAME | 1_0_***.jpg | |
| | PAGE NUMBER | 0x20 | |
| | INPUT METHOD | ADF | |
| | ORIGINAL DOCUMENT SIZE | A4 | ī |
| | MAGNIFICATION | 100 | |
| IMAGE ATTRIBUTES ≺ | COLOR OR BLACK | BLACK | |
| | FORMAT | JPEG | |
| | DENSITY ADJUSTMENT | AUTOMATIC | |
| | COLOR ADJUSTMENT | NO ADJUSTMENT | |
| | EDIT | WHITE/BLACK REVERSE | |
| | EDIT | BINDING MARGIN | |
| 510.4 3 | EDIT | NOT SPECIFIED | |
| FIG. 13 | MODE | TEXT | |



| | | S. A. | 4 |
|--------------------|------------------------|------------------|--------|
| OUTDUT MEDIUM | MEDIUM | NORMAL PAPER | 10 mm |
| OUTPUT MEDIUM { | FEED SOURCE | MANVAL INSERTION | |
| | ROTATED OUTPUT | 90° | |
| OUTPUT STYLE | DOUBLE-SIDED OUTPUT | NO | |
| OUTPUT STILE | FINISH | STAPLE | |
| | SORT MODE | NON-SORT | |
| | | | |
| | INPUT DEVICE NUMBER | 0x07 | |
| | JOBID | 0xff | |
| | FILE NAME | 0xff | |
| | PAGE NUMBER | 0xff | |
| | INPUT METHOD | 0xff | |
| | ORIGINAL DOCUMENT SIZE | 0xff | |
| | MAGNIFICATION | 0xff | ~ 138b |
| IMAGE ATTRIBUTES ≺ | COLOR OR BLACK | 0xff | - 1300 |
| | FORMAT | 0xff | |
| | DENSITY ADJUSTMENT | 0xff | l |
| | COLOR ADJUSTMENT | 0xff | |
| | EDIT | 0xff | |
| | EDIT | 0xff | |
| | EDIT | 0xff | |
| | MODE | 0xff | |
| OUTPUT MEDIUM | MEDIUM | 0xff | |
| OUTPUT MEDIUM Y | FEED SOURCE | 0xff | |
| | OUTPUT MEDIUM | 0xff | j |
| OUTPUT STYLE | DOUBLE-SIDED OUTPUT | 0xff | 1 |
| OUTFUL STILE | FINISH | 0xff | |
| (| SORT MODE | 0xff | |

F I G. 14



(DEVICE MANAGEMENT TABLE)

| (DEVICE MANAGEMENT TABLE) | |
|-----------------------------------|---------------|
| INPUT DEVICE NUMBER | 0x00 |
| OPERATION STATUS ERROR NUMBER | BEING USED |
| ERROR NUMBER | 0x00 |
| INPUT PAGE NUMBER | 0x1F |
| IP ADDRESS | 192.168.*** |
| PWD | **** |
| OPTION | ADF |
| MEMORY SIZE | 3GB |
| DEVICE IDENTIFICATION ID | 0 |
| MASTER/SLAVE DEVICE SPECIFICATION | MASTER |
| OUTPUT DEVICE SPECIFICATION | 0x00 |
| INPUT DEVICE NUMBER | 0x01 |
| OPERATION STATUS ERROR NUMBER | WORKING |
| ERROR NUMBER | 0x00 |
| INPUT PAGE NUMBER | 0x20 |
| IP ADDRESS | 192.168.*** |
| PWD | **** |
| OPTION | ADF |
| MEMORY SIZE | 48MB |
| DEVICE IDENTIFICATION ID | 1 |
| MASTER/SLAVE DEVICE SPECIFICATION | SLAVE |
| OUTPUT DEVICE SPECIFICATION | 0x00 |
| INPUT DEVICE NUMBER | 0x02 |
| OPERATION STATUS ERROR NUMBER | BEING USED |
| ERROR NUMBER | 0x00 |
| INPUT PAGE NUMBER | 0x1F |
| IP ADDRESS | 192.168.*** |
| PWD | **** |
| OPTION | ADF/ADU |
| MEMORY SIZE | 64MB |
| DEVICE IDENTIFICATION ID | 2 |
| MASTER/SLAVE DEVICE SPECIFICATION | NOT SPECIFIED |
| OUTPUT DEVICE SPECIFICATION | 0x00 |
| : | |

~ 138c



| Γ | INPUT DEVICE NUMBER | 0x07 | V49(|
|---|-----------------------------------|------|--------|
| ſ | OPERATION STATUS ERROR NUMBER | 0xff | |
| | ERROR NUMBER | 0xff | |
| | INPUT PAGE NUMBER | 0xff | |
| | IP ADDRESS | 0xff | |
| | PWD | 0xff | ~ 138c |
| | OPTION | 0xff | |
| ſ | MEMORY SIZE | 0xff | |
| ſ | DEVICE ENTIFICATION ID | 0xff | } |
| | MASTER/SLABE DEVICE SPECIFICATION | 0xff | |
| | OUTPUT DEVICE SPECIFICATION | 0x00 | |
| _ | | | 4 |

FIG. 16

(PRINT DEVICE MANAGEMENT TABLE)

| (1707) DEVICE IN (1706) | | _ |
|------------------------------------|-----------------------|--------|
| OUTPUT DEVICE NUMBER | 0x05 | |
| OPERATION STATUS | FREE | |
| COLOR PERFORMANCE | FULLCOLOR | |
| ERROR NUMBER | 0x00 | |
| OUTPUT PAGE NUMBER | 0xFF | |
| IP ADDRESS | 192.168.*** | |
| PWD | **** | Ì |
| DOUBLE-SIDED DEVICE | ON | } |
| SORTER | ON | ļ |
| STAPLE | ON | |
| ROTATED OUTPUT | POSSIBLE | |
| MEMORY CAPACITY | 3GB | ~ 138d |
| LARGE CAPACITY PAPER FEED CASSETTE | A4 | |
| 1ST CASSETTE SIZE | A4R | |
| 1ST CASSETTE MEDIUM | NORMAL | |
| 2ND CASSETTE SIZE | A3 | |
| 2ND CASSETTE MEDIUM | NORMAL | } |
| 3RD CASSETTE SIZE | A4 | |
| 3RD CASSETTE MEDIUM | THICK PAPER | |
| 4TH CASSETTE SIZE | B4 |] |
| 4TH CASSETTE MEDIUM | V |] |
| MANUAL INSERTION SIZE | A4 |] |
| MANUAL INSERTION MEDIUM | COLOR-DEDICATED PAPER |] |
| | | - |

FIG. 17



(INPUT OPERATION MANAGEMENT TABLE)

| JOBID | 0x01 | |
|-----------------------------|-----------|-------|
| MASTER DEVICE INFORMATION | 0x01 | |
| INPUTTED PAGE NUMBER | 0x1F | |
| OPERATION STATUS | INPUTTING | ~139a |
| ERROR TYPE | 0xFF | |
| SLAVE DEVICE SPECIFICATION | 0x01 | |
| MASTER DEVICE SPECIFICATION | 0x00 | |

FIG. 18

(COPY ATTRIBUTE/STYLE/MEDIUM INFORMATION)

| | INPUT DEVICE NUMBER | 0x00 | |
|--------------------|------------------------|---------------------|--------|
| | JOBID | 0x01 | |
| | FILE NAME | 1_0_***.jpg | |
| | PAGE NUMBER | 0x1F | |
| | INPUT METHOD | ADF | |
| | ORIGINAL DOCUMENT SIZE | A4 | |
| | MAGNIFICATION | 71 | |
| IMAGE ATTRIBUTES ≺ | COLOR OR BLACK | COLOR | |
| | FORMAT | JPEG | |
| | DENSITY ADJUSTMENT | AUTOMATIC | |
| | COLOR ADJUSTMENT | NO ADJUSTMENT | |
| | EDIT | WHITE/BLACK REVERSE | |
| | EDIT | BINDING MARGIN | |
| | EDIT | NOT SPECIFIED | |
| | MODE | PHOTOGRAPH | |
| OUTDUT MEDIUM | MEDIUM | THICK PAPER | |
| OUTPUT MEDIUM | SUPPLY SOURCE | 1ST CASSETTE | |
| (| OUTPUT STYLE | 90° | 1001 |
| OUTPUT STYLE | DOUBLE-SIDED OUTPUT | SINGLE-SIDE | ~ 139b |
| OUTFOI STILE | FINISH | STAPLE | |
| | SORT MODE | SORT | |
| | | | J |

FIG. 19



(DEVICE MANAGEMENT TABLE)

| (DEVIOL WATCHENT TABLE) | | |
|-------------------------------|-------------|-------|
| INPUT DEVICE NUMBER | 0x00 | i |
| OPERATION STATUS ERROR NUMBER | WORKING | ı |
| ERROR NUMBER | 0x00 | |
| INPUT PAGE NUMBER | 0x20 | |
| IP ADDRESS | 192.168.*** | |
| PWD | **** | |
| OPTION | ADF | |
| MEMORY SIZE | 48MB | |
| DEVICE IDENTIFICATION ID | 0 | |
| SLAVE DEVICE SPECIFICATION | 0x01 | i |
| OUTPUT DEVICE SPECIFICATION | 0x00 | |
| INPUT DEVICE NUMBER | 0x01 | |
| OPERATION STATUS ERROR NUMBER | BEING USED | |
| ERROR NUMBER | 0x00 | |
| INPUT PAGE NUMBER | 0x1F | |
| IP ADDRESS | 192.168.*** | |
| PWD | *** | 1200 |
| OPTION | ADF | —139c |
| MEMORY SIZE | 48MB | |
| DEVICE IDENTIFICATION ID | 1 | |
| SLAVE DEVICE SPECIFICATION | 0x00 | _ |
| OUTPUT DEVICE SPECIFICATION | 0x00 | _ |
| : | • | 1 |
| INPUT DEVICE NUMBER | 0x07 | |
| OPERATION STATUS ERROR NUMBER | 0xff |] |
| ERROR NUMBER | 0xff |] |
| INPUT PAGE NUMBER | 0xff |] |
| IP ADDRESS | 0xff | |
| PWD | 0xff |] |
| OPTION | 0xff | |
| MEMORY SIZE | 0xff | |
| DEVICE IDENTIFICATION ID | 0xff | |
| SLAVE DEVICE SPECIFICATION | 0xff | |
| OUTPUT DEVICE SPECIFICATION | 0x00 | _ |
| | | _ |

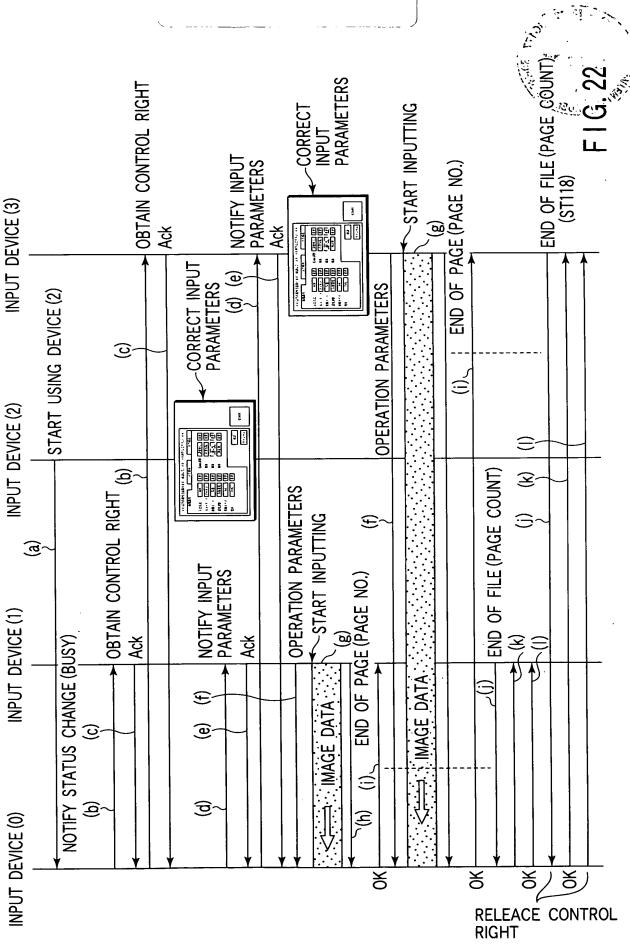




| OUTPUT DEVICE NUMBER | 0x05 | |
|------------------------------------|-----------------------|---------|
| OPERATION STATUS | FREE | |
| COLOR PERFORMANCE | FULLCOLOR | |
| ERROR NUMBER | 0x00 |] |
| OUTPUT PAGE NUMBER | 0xFF | |
| IP ADDRESS | 192.168.*** | |
| PWD | **** | |
| DOUBLE-SIDED DEVICE | ON | |
| SORTER | ON |]·] |
| STAPLE | ON | |
| ROTATED OUTPUT | POSSIBLE | |
| MEMORY CAPACITY | 3GB | ~ 139d |
| LARGE CAPACITY PAPER FEED CASSETTE | A4 | |
| 1ST CASSETTE SIZE | A4R | |
| 1ST CASSETTE MEDIUM | NORMAL | |
| 2ND CASSETTE SIZE | A3 | |
| 2ND CASSETTE MEDIUM | NORMAL | |
| 3RD CASSETTE SIZE | A4 | |
| 3RD CASSETTE MEDIUM | THICK PAPER | |
| 4TH CASSETTE SIZE | B4 | |
| 4TH CASSETTE MEDIUM | V | |
| MANUAL INSERTION SIZE | A4 |] . |
| MANUAL INSERTION MEDIUM | COLOR-DEDICATED PAPER | |
| | | _ |

F I G. 21





8 REGISTERED DEVICE 8 UN-DEVICE 4 INPUT DEVICE FREE CANCEL CHECK **SELECT INPUT DEVICE TO USE** DEVICE 7 UN-REGISTERED DEVICE 3 INPUT DEVICE FREE DEVICE 2 COPYING MACHINE DEVICE 6 PRINT DEVICE FREE DEVICE 5 INPUT DEVICE FREE DEVICE 1 COPYING MACHINE FREE

F1G. 23





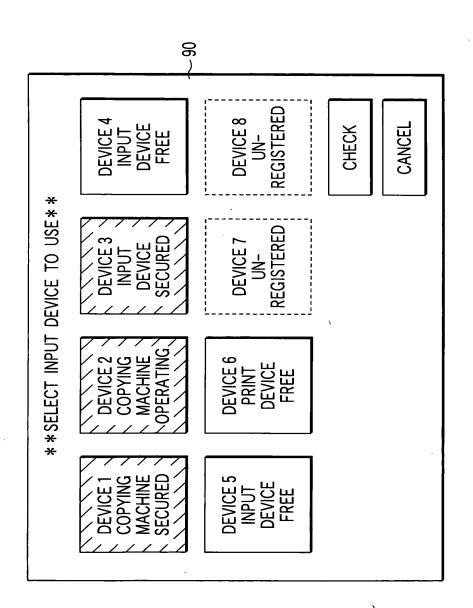
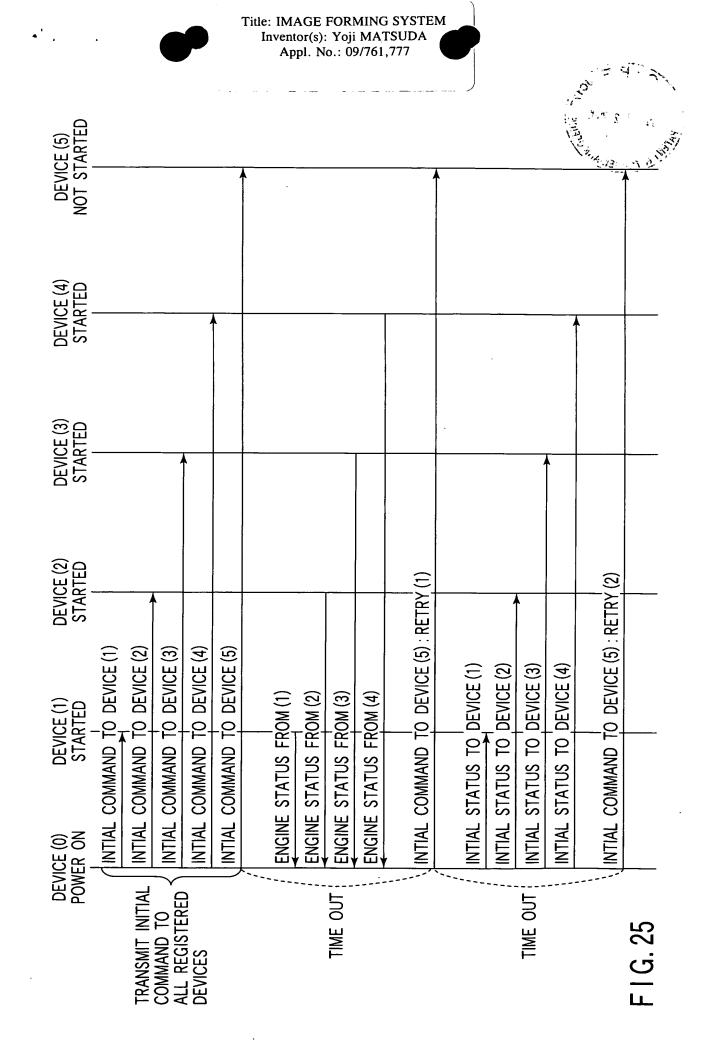


FIG. 24



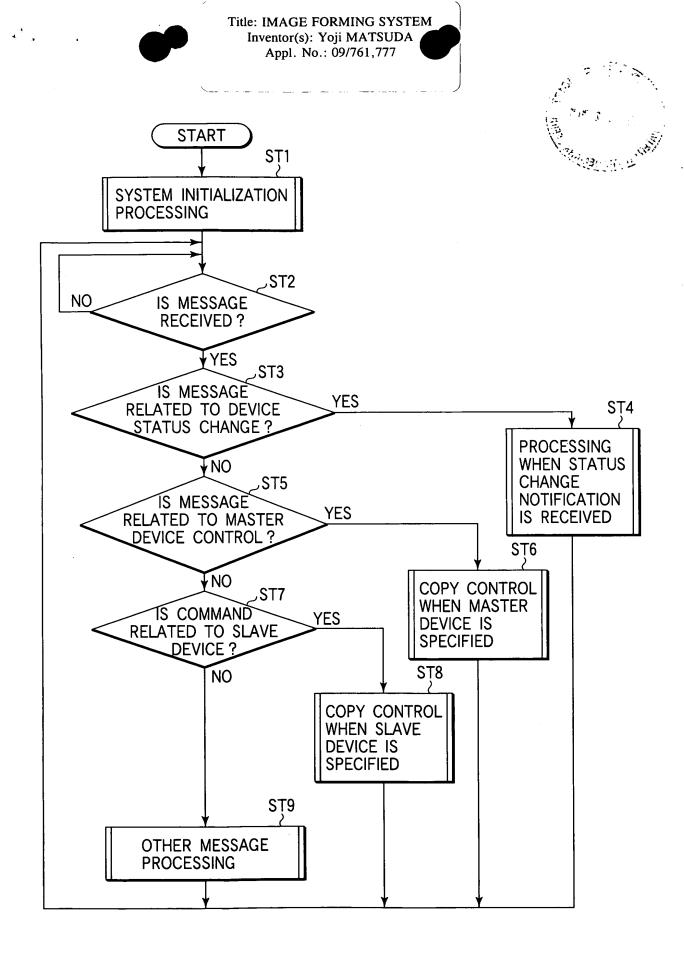
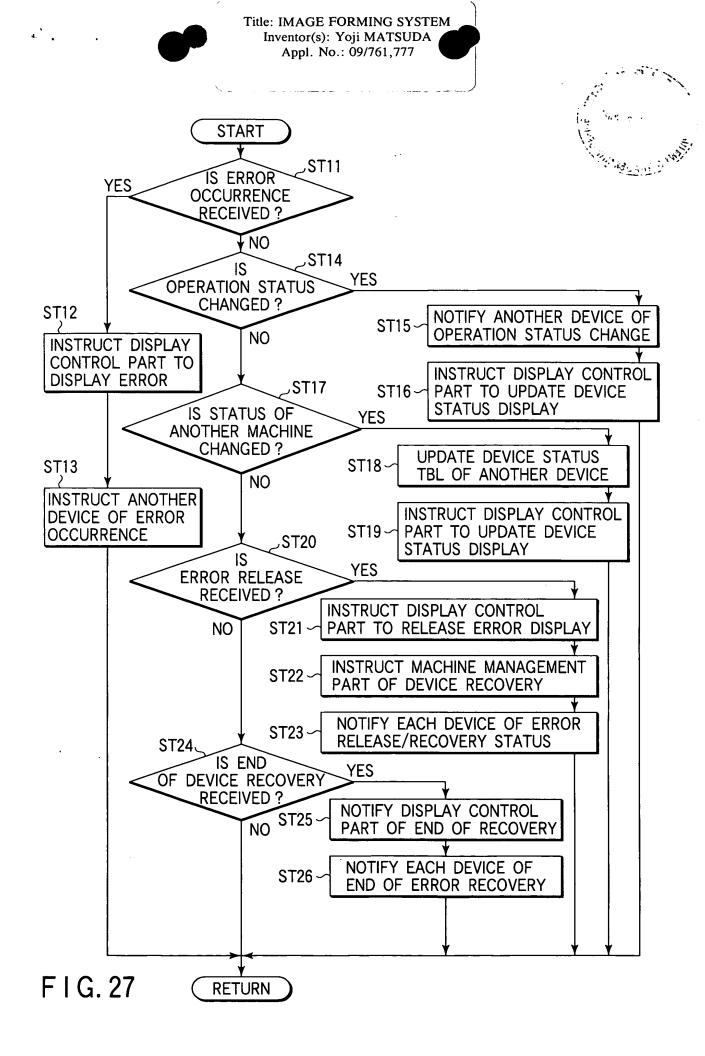
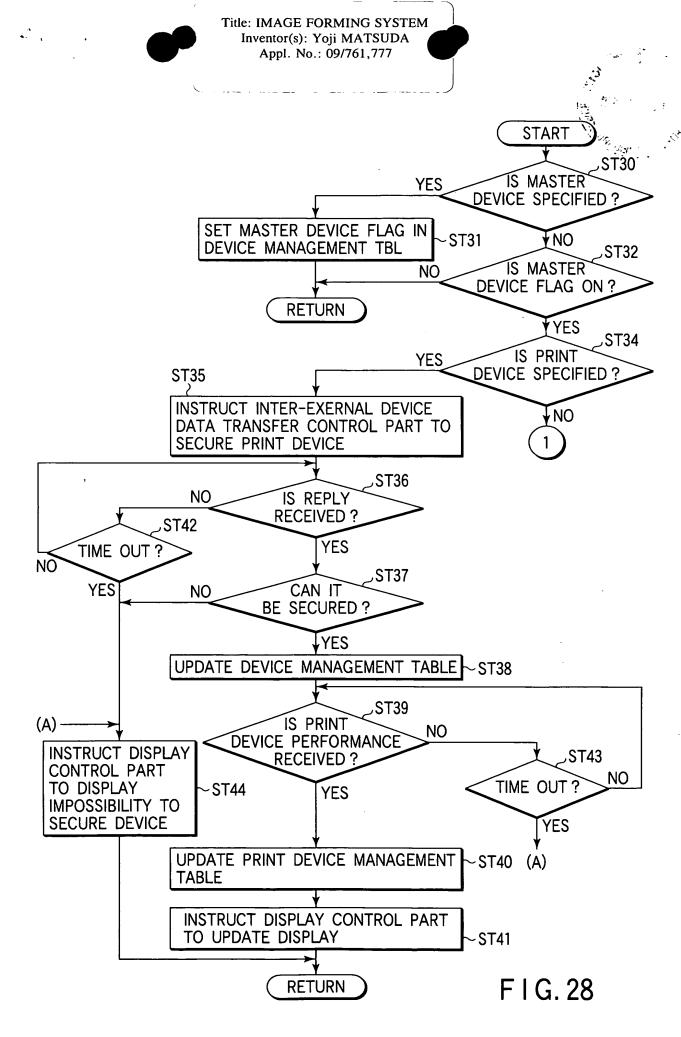


FIG. 26





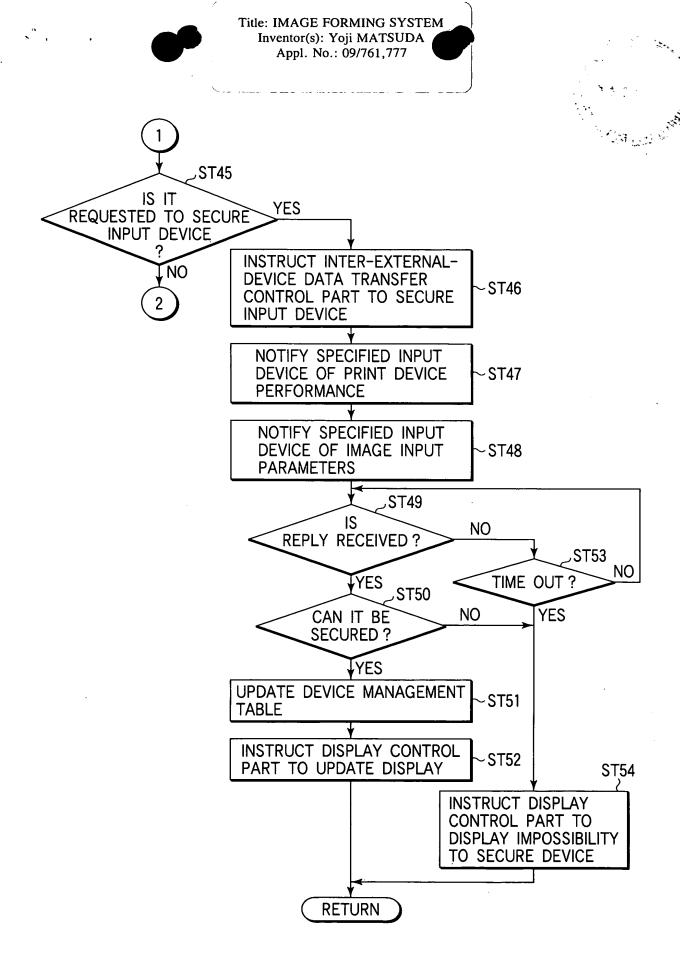


FIG. 29



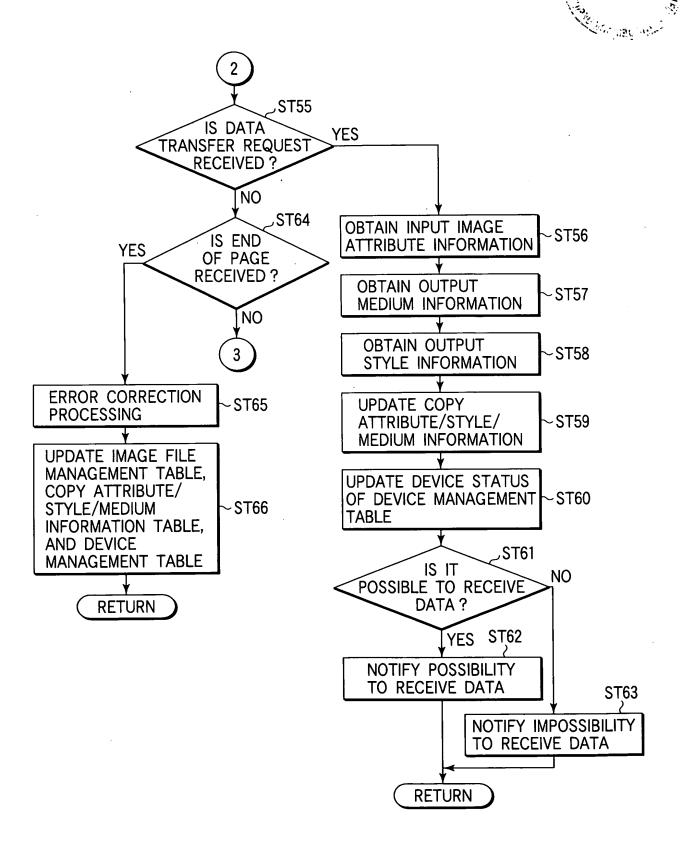
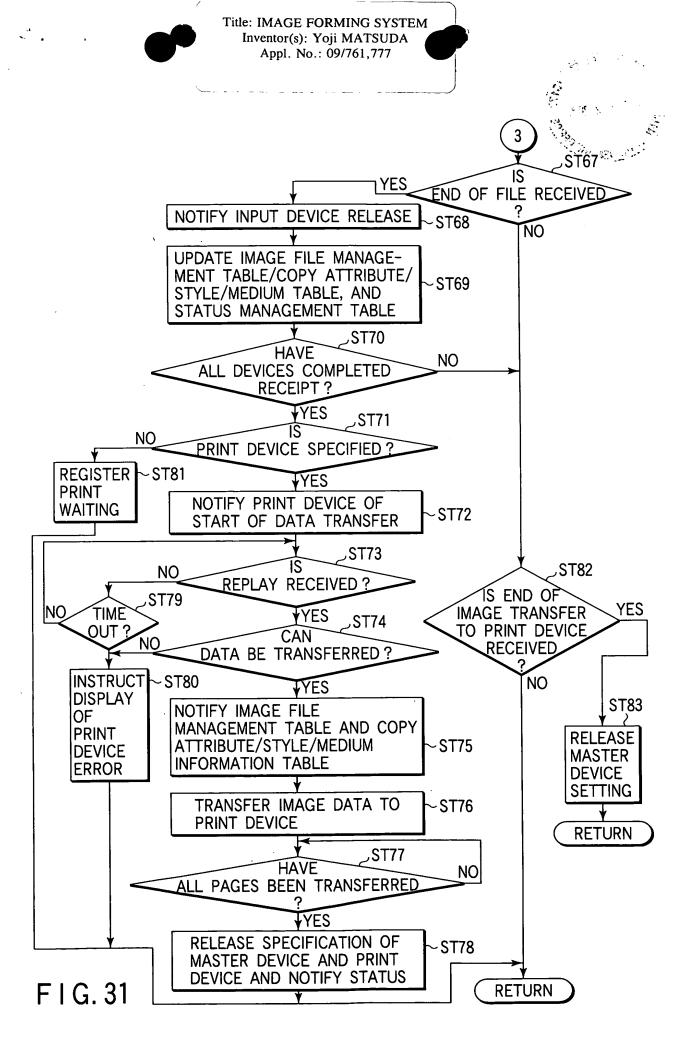
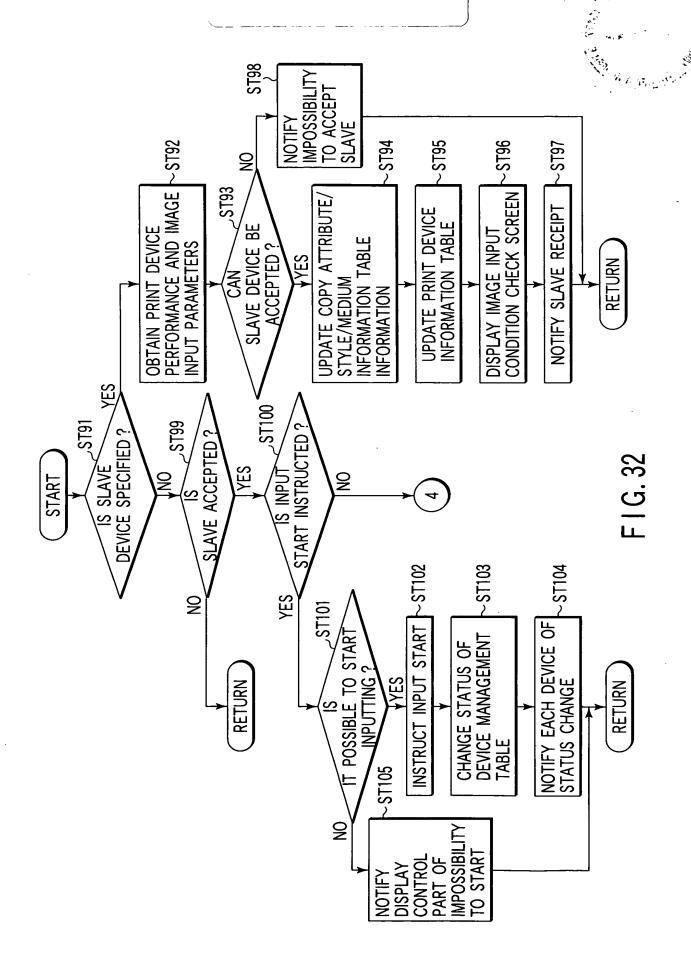


FIG. 30









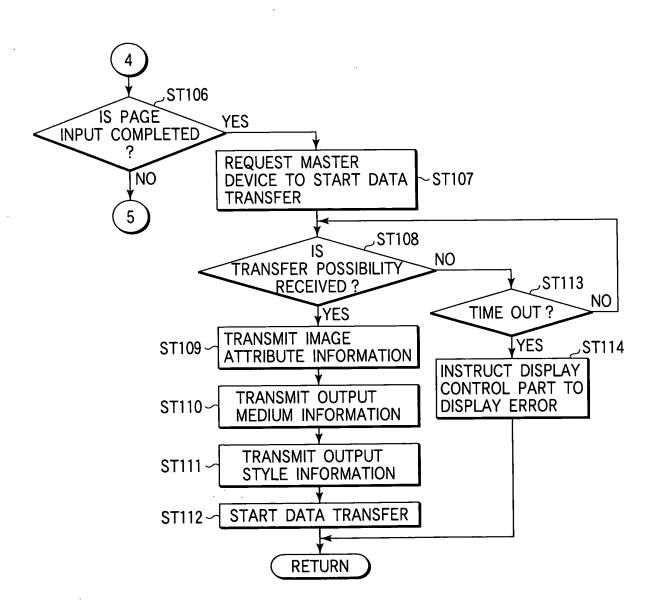


FIG. 33



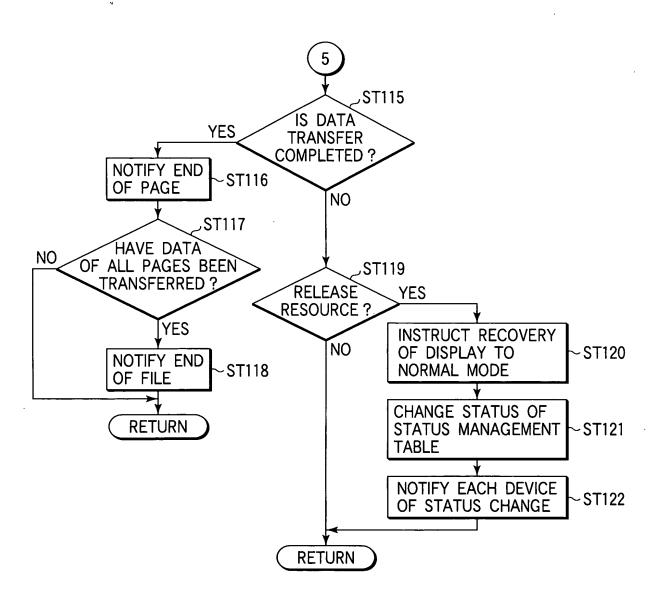
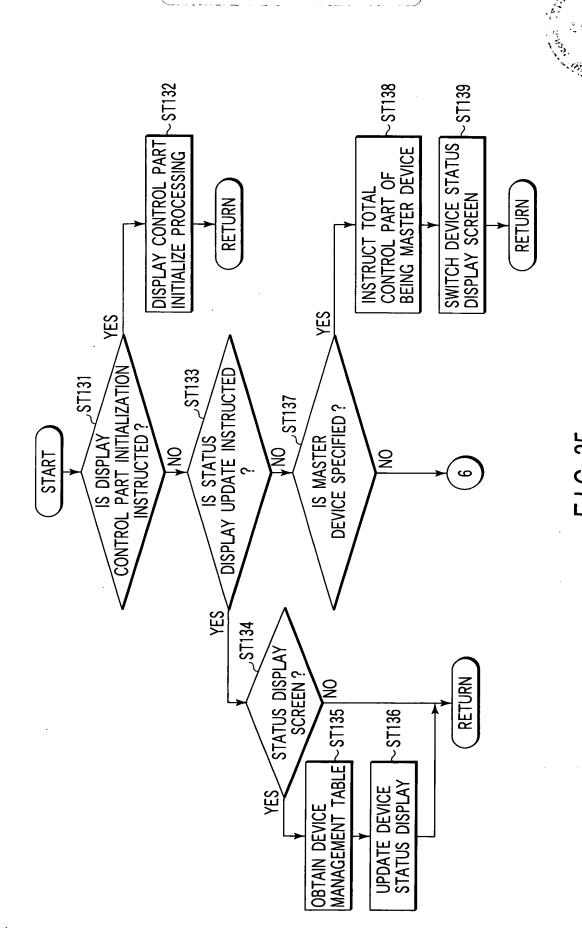
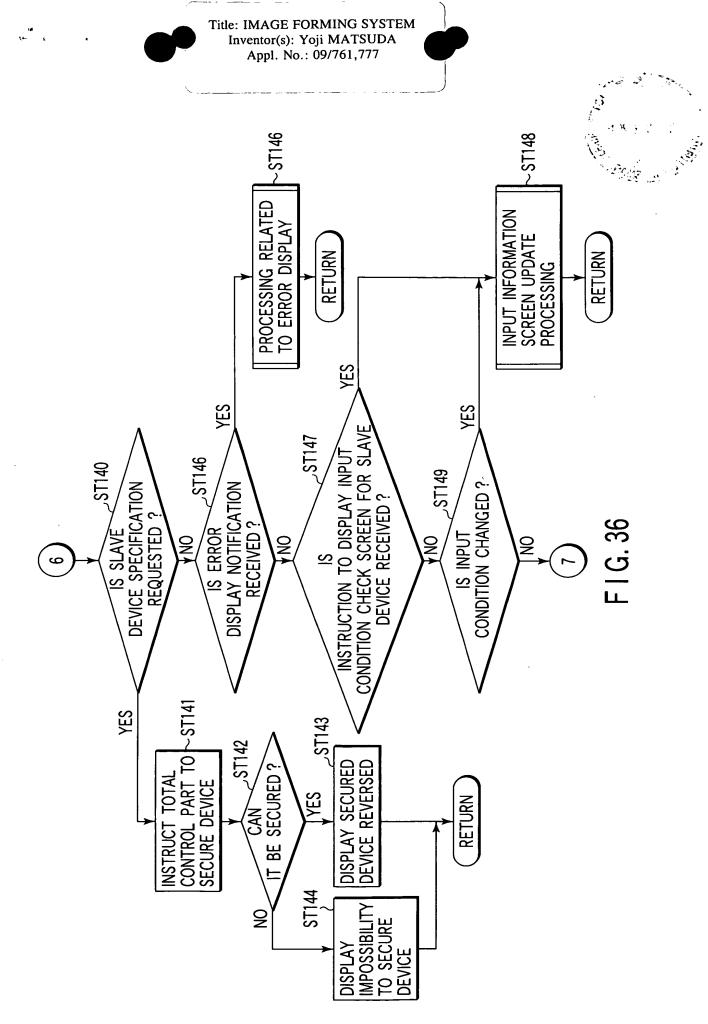
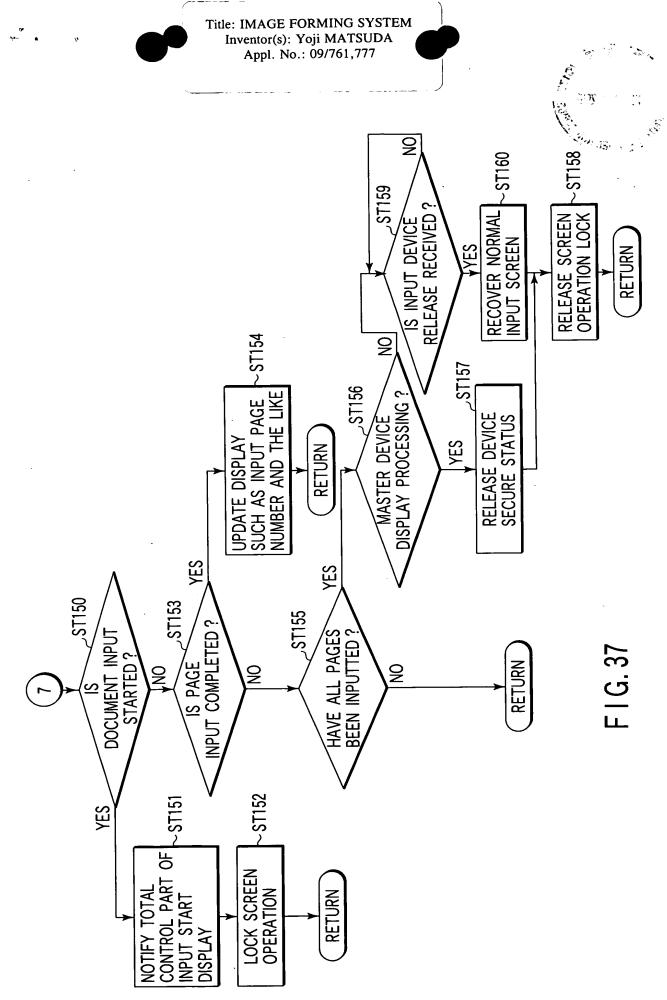


FIG. 34





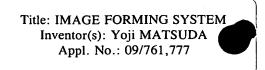






START OBTAIN INPUT ST161 PARAMETER TABLE **OBTAIN PRINT DEVICE** -ST162 **PERFORMANCE** ST163 IS DISPLAY CHANGEABLE COMPARING NO DISPLAY PARAMETER TYPE, MASTER DEVICE CONDITION, AND PRINT DEVICE PERFORMANCE? ST165 YES ST164 DISPLAY ONLY ORIGINAL PREPARE SCREEN FOR DOCUMENT INPUT CHANGING ORIGINAL **PARAMETERS** DOCUMENT INPUT **PARAMETERS** ST166 HAS DISPLAY NO OF ALL PARAMETERS BEEN UPDATED? **TYES RETURN**

FIG. 38



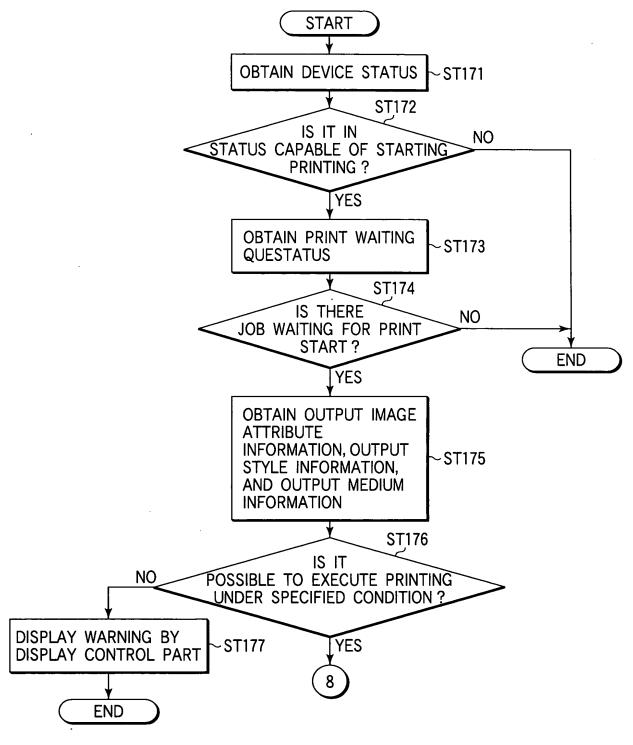


FIG. 39



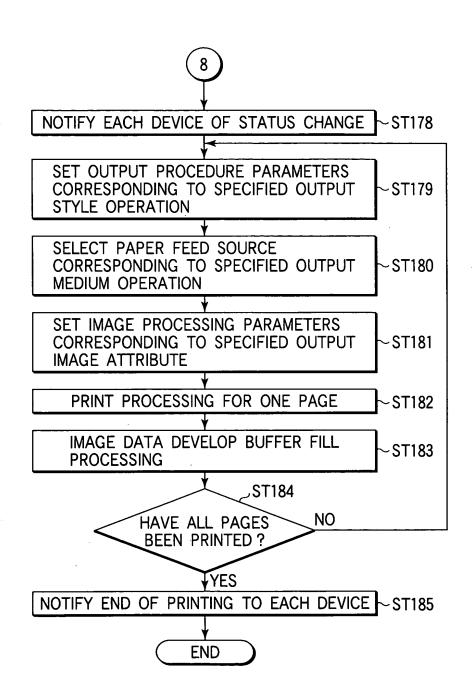


FIG. 40